

Patent  
Attorney Docket: 54704.8025.US01

## AMENDMENT

### In the Specification:

Please amend the specification as follows:

Please delete paragraph [0005] and replace it with the following paragraph:

*B1*  
[0005] The methyl donor in ~~TNT~~ TMP biosynthesis, 5,10 methylenetetrahydrofolate (MTHF), is oxidized to dihydrofolate (DHF) so that the TS reaction constitutes a significant drain on cellular tetrahydrofolate (THF) pools. The levels of MTHF are maintained during TMP synthesis by the combined actions of dihydrofolate reductase (DHFR) and serine hydroxymethyltransferase (Fig. 1A). Chemotherapeutic agents such as 5-fluorouracil (5FU) and fluorodeoxyuridine (FudR) block TMP biosynthesis by inhibiting TS directly. Inhibitors of DHFR (e.g. aminopterin/methotrexate) indirectly block TMP production by limiting the availability of MTHF (see Fig. 1B)

replace TNT with TMP

Please delete paragraph [0031] and replace it with the following paragraph:

*B1*  
[0031] These data demonstrate that thymineless death in yeast is primarily dependent on uracil misincorporation and detrimental repair. Cells can bypass this toxicity through the action of dUTPase. Stable misincorporation of uracil into DNA enables S-phase checkpoint bypass, initiating a G2 checkpoint that is activated in cells that possess Ugi-inhibited ~~inhibited~~ uracil DNA glycosylase.